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(UT-930)

## United States Department of the Interior

**BUREAU OF LAND MANAGEMENT** 

Utah State Office 324 South State, Suite 301 Salt Lake City, Utah 84111-2303

26am 11/4/94 NOV = 4 1994

Mr. Peter D. Stevenson, OSC Emergency Response Branch Environmental Protection Agency Region VIII 999 18th Street, Suite 500 Denver, Colorado 80202-2466

Dear Mr. Stevenson:



Enclosed are our comments regarding the review of the "Preferred Plan Remediation Report" for the Leeds Silver Reclamation. This letter follows our earlier comments of October 17, 1994, and the recent conference call with EPA and the Bureau of Reclamation on October 25, 1994, regarding the remediation plan for Leeds Silver Reclamation. The conference call was helpful in providing the opportunity for the BLM and the State of Utah's Division of Oil, Gas, and Mining (UDOGM) to discuss our concerns regarding the plan and the studies that have been done in support of the EPA preferred remediation plan. We have a number of questions on the plan and the supporting studies and have provided general, specific, and editorial comments.

## **General Comments**

It is the position of BLM that the public lands should not be used as a disposal site or containment area for remediating a hazardous waste site if feasible alternatives exist. If the remediation plan were to be implemented as proposed, it is our understanding that the existing leach pad and pregnant pond would not be neutralized even though one of the potential environmental risks would be releases of leachate from the leach pad into surface or ground water. It is also our understanding that the sediment remaining after metal precipitation and dewatering of the holding pond, as well as other materials from both unpatented and patented lands within the site, would be placed on the leach pad.

We do not believe the report adequately addresses the condition of the leach pad liner and its integrity and the probability of future releases to the environment (either to ground water or surface water) of potential hazardous substances from the disposal area. We also have concerns with the effectiveness and longevity of the geosynthetic cap and the associated responsibilities and long-term commitment for inspection, protection from disturbance (by fencing, etc.), and the related restrictions in land use management options such a feature creates. In this case, the area is close to residences, and human activity is expected to increase in the future. The capping-in-place proposal has many uncertainties, including (1) the effectiveness to prevent future releases, (2) the potential long-term commitment of BLM for

protection and monitoring, (3) the liability for future releases should they occur, and (4) the extent of restricted land use options in an area of future human expansion.

Study results completed by the Bureau of Reclamation in order to develop the remediation plan must be submitted in order for us to assess the reclamation plan adequately as proposed. Without this information, we cannot allow the placement of materials, including the sediment remaining after metal precipitation and dewatering of the holding pond, onto the leach pad. If the studies cannot support that the sediments are nonhazardous, our position will be that the public lands BLM administers will not be used as a hazardous waste disposal site.

## **Specific Comments**

1. Mr. Stevenson's cover letter is confusing as to what features at the Leeds Silver site will be reclaimed under their proposal. The third paragraph of this letter states, "The report does not address some additional threats that have been identified at the site." Yet all five items listed sound like someone is responsible for completing the step. If so, who is responsible for doing the work and who will pay for it?

In addition, item 5 states, "Pump and treat the pregnant pond and holding (overflow) pond. Water in the holding pond will be treated, possibly by raising the pH and precipitating metals out." How will this be accomplished? What chemicals will be used to raise the pH and precipitate the metals? The sediment (sludge) from the ponds will have to be tested in order to determine whether this material may be buried on site or whether it has to be disposed of at a Subtitle C facility. Also, the cost to pump the water from the holding pond into the wetland is figured into the geosynthetic material option; however, there is no calculation for neutralizing of the solutions in the ponds.

- 2. The first paragraph on the second page of Mr. Stevenson's letter states they would like to be able to use the bond held by the State to defray some of the cost. Since the State holds the bond, they will have to decide how their bond will be used.
- 3. In the cover letter dated October 4, 1994, the EPA proposes to breach the holding pond but leave the asphalt liner in place. Is there a reason to leave the asphalt liner in place, or can it be removed?
- 4. The plan proposes to cap the leach pad as is; however, only very limited test results have been provided to BLM. If the pad has acid or heavy-metal-contaminated drainage potential, then remediation for these situations should be identified. The only tests results we have are on the pad material which was surface-sampled as part of the 1991 UDERR report (samples LS-SO-03 and LS-SO-04). The results were that "several metals were detected at elevated levels, but these are mostly below typical regulatory or health-based action levels" (pg 11).
- 5. If the Geosynthetic Cover option is adopted, what is the effective life of the FML liner?
- 6. Section 8.2 Natural Material Cover Option—Clay liner placed in 15 cm lifts is appropriate. In addition, they refer to a possible clay source located on site 1,400 feet from the heap leach pad. Once EPA completes their test on the physical and chemical

mobility of the material and relatively high cost of incorporation into the heap leach pad. What data support the conclusion that this material has low mobility and is therefore not a source of potential contamination to any of the pathways?

16. Section 6.0 Drainage Water—The wetland was supposed to be sampled according to the work plan dated December 1993. What were the results? The dike is assumed to be noncontaminated soil and will be removed after sampling to allow the free flow of the drainage water into the wetlands area. In the December work plan, the dike was to be mapped in order to determine location and volume of the seeps. This information was needed in order to repair the dike to enhance the retention capability of the dike. Will the dike be repaired or breached?

The asphalt liner in the holding pond extending to the dike will be removed. The asphalt will be considered for the possibility of washing until free of all contaminates. Is the asphalt considered hazardous? If so, how will it be handled in the removal action?

- 17. Section 6.0 Additional Notes—The last paragraph in this section states that more samples must be obtained and analyzed to assure uranium levels are not higher than 10 pCi/gm or that additional isotopes are not present. Different isotopes may require different disposal methodology. Where, when, and how will these samples be taken?
- 18. According to the December work plan, water-monitoring holes were to be installed at selected locations in the area to identify potential water problems. Where were these holes drilled? What elements were being tested for in these wells? What elements were found in these wells? We need to decide which of these holes should be left open for long-term reclamation monitoring.
- 19. NEPA documentation is not addressed. We cannot find anything in the BLM NEPA Handbook (H-1790-1) that exempts this proposed action. Therefore, the time involved in completing this process must be included in the overall timeframe for completing the project. Due to the location and the local interest in the area we believe that public participation is appropriate. Before the project contract is let, the EPA is to provide a design report specifying what work will be done to what standards. This report will require a careful analysis to make sure that it effectively meets the BLM's long-term needs.
- 20. We recognize that additional work will be necessary to restore the area—primarily the removal of the processing tanks, equipment, and paved area from the site, as well as the general reshaping and revegetation of the site. We need to know what will be required to complete these portions of the reclamation plan in order for the site remediation to meet REAC conclusions. If we are required to complete any of these reclamation measures, then we must program for the money. The budget process takes at least a year to complete. We need as much lead time as possible.

Also, enclosed are UDOGM comments. Their comments reflect similar concerns as those stated above.

- 1. Section 8.0 Cap General—The first paragraph under this section refers to section 5.2 Natural Material Cover Option and Section 5.3 Geosynthetic Cover Option. We believe they meant to refer to 8.2 and 8.3, respectively.
- 2. Section 8.3 Geosynthetic Cover Option—The second paragraph refers to section 5.2. We believe they want to refer to section 8.2.
- 3. Section 6.0 Additional Notes—This section should really be 9.0 according to the Table of Contents.

We look forward to working with EPA to resolve the remediation and reclamation concerns of both BLM and UDOGM regarding the Leeds Silver Reclamation site and arriving at an effective long-term solutions. If you have any questions regarding our comments, please call Larry Gore at (801) 673-4654 or Craig Zufelt at (801) 865-3053. Please let Larry Gore and Craig Zufelt know when the final reclamation plan and the Bureau of Reclamation supporting information will be available. If you have any questions regarding the State's comments, please call Wayne Hedberg at (801) 538-5340. Thank you for the opportunity to review the reclamation plan and provide our comments.

Sincerely,

/S/ G. William Lamb

G. William Lamb Acting State Director

Enclosure UDOGM comments (4 pp)

cc: Mr. Wayne Hedberg

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